Fig.

Wild Type Template

Ö CTGAGCAGTACAGAGTCGAAATC 5' 10866(SEQ ID NO:81) TCTGACTCGTCATGTCTCAGCTTTAGTTTAATACGACTCACTATAG <u>-</u>

5'TIGCAGAGAAAAAAATATAGTICTIGGAGAAGGIGGAAICACACIGAGIGGA 10870(SEQ ID NO:77) 3'TCCACCTTAGTGTGACTC 10865(SEQ ID NO:76) 3'CCACTTCCACCTTAGTGTGTCTC 5' 10869(SEQ ID NO:79) GICTCTTTCTGTTATATCAAG 5'

B Mutant Template

TCTGACTCGTCATGTCTCAGCTTTAGTTTAATACGACTCACTATAG CTGAGCAGTACAGAGTCGAAATC 5'10866(SEQ ID NO:81) <u>-</u>

5'TTGCAGAGAAAAGACAATATAGTTCTTTGAGAAGGTGGAATCACACTGAGTGGA 10994(SEQ ID NO:78) 3'ACACTTCCACCTTAGTGTGACTC 5' 10989(SEQ ID NO:80) 3'TCCACCTTAGTGTGACTC 10865(SEQ ID NO:76) GTCTCTTTCTGTTATATCAAG 5'

N Fig

3-

ا 3'AGCTAAGGTCACAACCGGTTTGCCGCTTTATTATACCGGGG 5' ...CCCGGAGAGACCTCCTTAAGGGGCCCATATTATTTCGTCGATTCCAGTGTTGGCCAAACG SEQ ID NO:67 Å

SEQ ID NO:68

ر -GGGCCTCTCTGGAGGAATTCCCCGGTATAATAAGCAGCTAAGGTCACAACCGGTTTGCCGCTTTATTATACCGGGG ...cccggagagacctccttaaggggccatattatttcgtcgattccagtgttggccaaacgś SEQ ID NO:67

SEQ ID NO:69

SEQ ID NO:70

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CCCGGAGAGACCTCCT 3' 🕹 5

GGGCCTCTCTGGAGGAATTCCCCGGTATAAAGCAGCTAAGGTCACAACCGGTTTGCCGCTTTATATACCGGGG

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SEQ ID NO:69

SEQ ID NO:71

3-<u>ا</u> CCCGGAGAGACCTCCTTAAGGGGCCCATATTATTTCGTCGATTCCAGTGTTGGCCAAACGGCGAAATAATATGGCCCC

GGGCCTCTCTGGAGGAATTCCCCGGTATAATAAGCAGCTAAGGTCACAACCGGTTTGCCGGCTTTATTATCCGGGG ا ا ا

SEQ ID NO:69

CCCCGGTATAATAAGC-

. E

CCCGGAGAGACCTCCTTAAGGGGCCATATTATTTCGTCGATTCCAGTGTTGGCC-3.

SEQ ID NO:71